



03-84-05

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

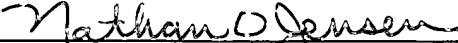
INVENTOR: S. VanLaningham et al.) GROUP ART UNIT: 2681
SERIAL NO.: 10/782,716) EXAMINER:
FILED: February 19, 2004) DOCKET REF.: 03CR418/KE
SUBMITTED: March 3, 2005
FOR: HYBRID OPEN/CLOSED LOOP FILTERING FOR LINK QUALITY ESTIMATION

INFORMATION DISCLOSURE STATEMENT

Hon. Commissioner of Patents and Trademarks
Washington, D.C. 20231

Dear Sir:

In accordance with 37 C.F.R. §1.56, the references listed below and on the attached for PTO-1449 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. Copies of the cited documents, other than non-U.S. Patents and Published U.S. Applications, are enclosed.

Express Mail Mailing Label	EV 228 570 878
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I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to the Commissioner of Patents, Box Patent Application, Washington, D.C. 20231.	
Nathan O. Jensen	
Typed or printed name of person mailing paper or fee	
	
(Signature of person mailing paper or fee)	

English-Language Documents

U.S. Patent No.	Inventor	Issue Date (Month/Year)
6,331,973	Young et al.	12/2001
6,094,429	Blanchette et al.	07/2000
6,324,184	Hou et al.	11/2001
5,625,629	Wenk	04/1997
6,310,867	Tat et al.	10/2001
5,949,760	Stevens et al.	09/1999
6,252,868	Diachina et al.	06/2001
6,275,506	Fazel et al.	08/2001
5,748,362	Delacourt et al.	05/1998
6,317,436	Young et al.	11/2001
5,953,344	Dail et al.	05/2001
6,018,528	Gitlin et al.	01/2000
6,031,827	Rikkinen et al.	02/2000
4,763,322	Eizenhofer	08/1988
6,157,656	Lindgren et al.	12/2000
6,353,605	Rautanen et al.	03/2002
6,504,829	Young et al.	01/2003
6,628,636	Young	09/2003
6,600,754	Young et al.	07/2003
5,450,394	Gruber et al.	06/2003
5,502,722	Fulghum	03/1996
5,568,477	Galand et al.	10/1996
5,652,751	Sharony	07/1997
5,696,903	Mahany	12/1997
6,314,084	Kahale et al.	11/2001
5,581,548	Ugland et al.	12/1996
5,506,848	Drakopolous et al.	04/1996
6,304,559	Jacklin et al.	12/2001
5,117,422	Hauptschein et al.	05/1992
5,425,609	Ofek et al.	09/1993
5,448,698	Wilkes	09/1995
5,598,417	Crisler et al.	01/1997
6,084,888	Watanabe et al.	07/2000
5,983,259	Campbell et al.	11/1999
5,920,703	Campbell et al.	07/1999
6,084,889	Murakami	07/2000
5,457,681	Gaddis et al.	10/1995
5,420,858	Marshall et al.	05/1995
6,711,177	Young et al.	03/2004
6,384,739	Roberts, Jr. et al.	05/2002
6,369,719	Tracy et al.	04/2002
6,014,089	Tracy et al.	01/2000
6,529,443	Downey et al.	03/2003
6,088,659	Kelley et al.	07/2000
6,556,899	Harvey et al.	04/2003
6,256,477	Eidson et al.	07/2001
6,414,955	Clare et al.	07/2002

6,389,273	Brandenburg	05/2002
6,466,793	Wallstedt et al.	10/2002
6,256,304	Vayrynen	07/2001
6,553,424	Kranz et al.	04/2003
5,396,496	Ito et al.	03/1995
5,295,140	Crisler et al.	03/1994
5,012,469	Sardana	04/1991
4,504,946	Raychaudhuri	03/1985
6,442,157	Carter et al.	08/2002
5,613,198	Ahmadi et al.	03/1997
5,644,576	Bauchot et al.	07/1997
6,151,319	Dommety et al.	11/2000
6,498,667	Masucci et al.	12/2002
5,719,868	Young	02/1998
6,487,186	Young et al.	11/2002
6,574,206	Young	06/2003
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5,742,593	Sharony et al.	04/1998
5,594,720	Papadopolous et al.	01/1997
6,353,598	Baden et al.	03/2002
6,631,124	Koorapaty et al.	10/2003
6,094,425	Auger et al.	07/2000
6,489,996	Dupuy	10/2002
6,791,944	Young et al.	09/2004
6,771,626	Golubiewski et al.	08/2004
6,781,967	Young et al.	08/2004
6,810,022	Young et al.	10/2004

U.S. Published Patent Application No.	Inventors	Publication Date
2002/0046381	Morris et al.	04/2002
2002/0001294	Amouris	05/2001

Other English Language Documents:

I. Chlamtac and A. Farago, "An Optimal Channel Access Protocol with Multiple Reception Capacity," Dept. of Telecommunications & Telematics, Technical University of Budapest, Budapest, Hungary. Publication date unknown; believed to be 1993.

Young, "USAP: A Unifying Dynamic Distributed Multichannel TDMA Slot Assignment Protocol," Proc. IEEE MILCOM 1996, vol. 1, October 1996.

L. Pond and V. Li, "Bridging the Gap Interoperability, Survivability, Security," 1989 IEEE MILCOM, Conference Record, Volume 1 of 3.

Bittle, Caples, Young, "Soldier Phone: An Innovative Approach to Wireless Multimedia Communications," 1998 IEEE MILCOM, Volume 3.

Sunlin, "A Hybrid Distributed Slot Assignment TDMA Channel Access Protocol," IEEE Military Communications Conference, 1990, Volume 3 of 3.

Young and Stevens, "Clique Activation Multiple Access (CAMA): A Distributed Heuristic for Building Wireless Datagram Networks," IEEE Military Communications Conference 1998, Volume 1.

Ju et al. "An Optimal Topology-Transport Scheduling Method in Multihop Packet Radio Networks." IEEE/ACM Transactions on Networking. June 1998. Pages 298-306.

Chakraborty et al. "Generic Algorithm for Broadcast Scheduling in Packet Radio Networks," Evolutionary Computation Proceedings, 1998. IEEE World Congress on Computational Intelligence. 4-9 May 1998. Pages 183-188.

Pond et al. "A Distributed Time-Slot Assignment Protocol for Mobile Multi-Hop Broadcast Packet Radio Networks," IEEE MILCOM, 1989. 15-18 October 1989. Pages 70-74.

Arikan, E. "Some Complexity Results about Packet Radio Networks," IEEE Transactions on Information Theory, v.IT-30, No. 4, July 1984, Pages 681-685.

Chou et al. "Slot Allocation Strategies for TDMA Protocols in Multihop Packet Radio Network." Eleventh Annual Joint Conference of the IEEE Computer and Communications Societies. 4-8 May 1992. Pages 710-716.

Oono et al. "Dynamic Slot Allocation Technology for Mobile Multi-Media TDMA Systems Using Distributed Control Scheme," IEEE. 12-16 Oct 1997. Pages 74-78.

U.S. Patent Application Serial No. 09/303,802, "Clique Activation Multiple Access," filed April 30, 1999, C. D. Young et al., Attorney Docket No. 97CR159/KE.

U.S. Patent Application Serial No. 09/422,498, "Method and Apparatus for Managing Communication Resources Using Dynamic and Static Assignment of Communication Slots," filed October 21, 1999, C. David Young, Attorney Docket No. 98CR095/KE.

U.S. Patent Application Serial No. 09/649,802, "Maintaining an Adaptive Broadcast Channel Using Both Transmitter Directed and Receiver Directed Broadcast," filed August 29, 2000, C. David Young, Attorney Docket No. 99CR100/KE.

U.S. Patent Application Serial No. 10/689,448, "Heuristics for Combining Inter-Channel and Intra-Channel Communications in a Wireless Environment," filed October 20, 2003, C. David Young et al., Attorney Docket No. 03CR081/KE.

U.S. Patent Application Serial No. 10/847,786, "On-Demand Broadcast Protocol," filed May 18, 2004, C. David Young et al., Attorney Docket No. 03CR354/KE.

U.S. Patent Application Serial No. 10/867,481, "Artery Nodes," filed June 14, 2004, C. David Young et al., Attorney Docket No. 03CR355/KE.

U.S. Patent Application Serial No. 10/811,000, "Network Routing Process For Regulating Traffic Through Advantaged And Disadvantaged Nodes," filed March 26, 2004, Fred D. Mabe et al., Attorney docket No. 03CR119/KE.

Foreign Documents

None

This disclosure statement should not be construed as a representation that a search has been completed or that no other material information as defined in 37 C.F.R. §1.56(a) exists.

It is believed that this disclosure complies with the requirements of 37 C.F.R. §§ 1.56, 1.97, and 1.98, and the Manual of Patent Examining Procedures §609. If for some reason the Examiner considers otherwise, it is respectfully requested that the undersigned be called so that any deficiencies can be remedied.

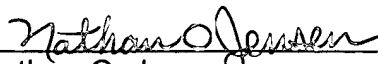
Some of the documents may have markings thereon. No significance is meant to the attached markings.

These documents are not necessarily analogous art.

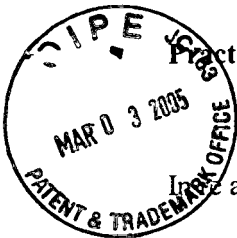
It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached form PTO-1449 with initials or other appropriate marks.

Respectfully submitted,

ROCKWELL COLLINS, INC.
Intellectual Property Department
400 Collins Road NE M/S 124-323
Cedar Rapids, IA 52498
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Facsimile No. (319) 295-8777



Nathan O. Jensen
Attorney of Record
Reg. No. 41,460



Practitioner's Docket No. 03CR418/KE

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Steven L. VanLaningham, et al.

Application No.: 10/782,716

Group No.: 2681

Filed: February 19, 2004

Examiner:

For: Hybrid Open/Closed Loop Filtering For Link Quality Estimation

Mail Stop Amendment

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
WITHIN THREE MONTHS OF FILING OR
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IDENTIFICATION OF TIME OF FILING THE ACCOMPANYING
INFORMATION DISCLOSURE STATEMENT

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. 37 C.F.R. § 1.97(b).

CERTIFICATION UNDER 37 C.F.R. ' ' 1.8(a) and 1.10*

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37 C.F.R. § 1.10*

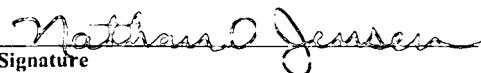
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Date: March 3, 2005


Signature

Nathan O. Jensen

(type or print name of person certifying)

* Only the date of filing (' 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under ' 1.8 continues to be taken into account in determining timeliness. See ' 1.703(f). Consider "Express Mail Post Office to Addressee" (' 1.10) or facsimile transmission (' 1.6(d)) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.

Authorization is hereby made to charge any fees or to credit any overpayment to Deposit Account No. 18-1722.

Date: March 3, 2005

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Customer No.: 26383


Signature of Practitioner

Nathan O. Jensen
Rockwell Collins, Inc.
Intellectual Property Department M/S 124-323
400 Collins Road NE
Cedar Rapids, IA 52498

INFORMATION DISCLOSURE CITATION	Attorney Docket No.	Serial Number
	03CR418/KE	10/782,716
	Applicant	
	S. VanLaningham et al.	
	Filing Date	Group
	February 19, 2004	2681



U. S. PATENTS

Exmnr Initl	Document No.	Issue Date	Name	Class	Subclass	Filing Date
	6,331,973	12-2001	Young et al.	370	337	
	6,094,429	07-2000	Blanchette et al.	370	337	
	6,324,184	11-2001	Hou et al.	340	7.43	
	5,625,629	04-1997	Wenk	370	330	
	6,310,867	10-2001	Tat et al.	370	254	
	5,949,760	09-1999	Stevens et al.	370	280	
	6,252,868	06-2001	Diachina et al.	370	347	
	6,275,506	08-2001	Fazel et al.	370	459	
	5,748,362	05-1998	Delacourt et al.	359	326	
	6,317,436	11-2001	Young et al.	370	443	
	5,953,344	05-2001	Dail et al.	370	337	
	6,018,528	01-2000	Gitlin et al.	370	436	
	6,031,827	02-2000	Rikkinen et al.	370	330	
	4,763,322	08-1988	Eizenhofer	370	337	
	6,157,656	12-2000	Lindgren et al.	370	458	

Foreign Patent Documents

Document No.	Date	Country	Class	Subclass	Translation	
					Yes	No

Other Documents

	L. Pond and V. Li, "Bridging the Gap Interoperability, Survivability, Security," 1989 IEEE MILCOM, Conference Record, Volume 1 of 3
	Bittle, Caples, Young, "Soldier Phone: An Innovative Approach to Wireless Multimedia Communications," 1998 IEEE MILCOM, Volume 3.
	Sunlin, "A Hybrid Distributed Slot Assignment TDMA Channel Access Protocol," IEEE Military Communications Conference, 1990, Volume 3 of 3.
	Young and Stevens, "Clique Activation Multiple Access (CAMA): A Distributed Heuristic for Building Wireless Datagram Networks," IEEE Military Communications Conference 1998, Volume 1 I. Chlamtac and A. Farago, "An Optimal Channel Access Protocol with Multiple Reception Capacity," Dept. of Telecommunications & Telematics, Technical University of Budapest, Budapest, Hungary. Publication date unknown; believed to be 1993.
	Ju et al. "An Optimal Topology-Transport Scheduling Method in Multihop Packet Radio Networks." IEEE/ACM Transactions on Networking. June 1998. Pages 298-306.

Examiner	Date Considered
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Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

INFORMATION DISCLOSURE CITATION		Attorney Docket No. <div style="text-align: center;">03CR418/KE</div>		Serial Number <div style="text-align: center;">10/782,716</div>		
		Applicant <div style="text-align: center;">S. VanLaningham et al.</div>				
		Filing Date <div style="text-align: center;">February 19, 2004</div>		Group <div style="text-align: center;">2681</div>		
U. S. PATENTS						
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	6,353,605	03-2002	Rautanen et al.	370	337	
	6,504,829	01-2003	Young et al.	370	337	
	6,628,636	09-2003	Young	370	337	
	6,600,754	07-2003	Young et al.	370	459	
	5,450,394	09-1995	Gruber et al.	370	17	
	5,502,722	03-1996	Fulghum	370	69	
	5,568,477	10-1996	Galand et al.	370	60	
	5,652,751	07-1997	Sharony	340	2.4	
	5,696,903	12-1997	Mahany	709	228	
	6,314,084	11-2001	Kahale et al.	370	230	
	5,581,548	12-1996	Ugland et al.	370	330	
	5,506,848	04-1996	Drakopolous et al.	370	336	
Foreign Patent Documents						
	Document No.	Date	Country	Class	Subclass	Translation Yes No
Other Documents						
	Chakraborty et al. "Generic Algorithm for Broadcast Scheduling in Packet Radio Networks," Evolutionary Computation Proceedings, 1998. IEEE World Congress on Computational Intelligence. 4-9 May 1998. Pages 183-188.					
	Pond et al. "A Distributed Time-Slot Assignment Protocol for Mobile Multi-Hop Broadcast Packet Radio Networks," IEEE MILCOM, 1989. 15-18 October 1989. Pages 70-74					
	Arikan, E. "Some Complexity Results about Packet Radio Networks," IEEE Transactions on Information Theory, v.IT-30, No. 4, July 1984, Pages 681-685.					
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		Applicant S. VanLaningham et al.				
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U. S. PATENTS						
Exmnr Initl	Document No.	Issue Date	Name	Class	Subclass	Filing Date
	6,304,559	12-2001	Jacklin et al.	370	310	
	5,117,422	05-1992	Hauptschein et al.	370	255	
	5,245,609	09-1993	Ofek et al.	370	348	
	5,448,698	09-1995	Wilkes	395	200.01	
	5,598,417	01-1997	Crisler et al.	370	348	
	6,084,888	07-2000	Watanabe et al.	370	473	
	5,983,259	11-1999	Campbell et al.	709	200	
	5,920,703	07-1999	Campbell et al.	709	236	
	6,084,889	07-2000	Murakami	370	474	
	5,457,681	10-1995	Gaddis et al.	370	402	
	5,420,858	05-1995	Marshall et al.	370	352	
	2002/0046381 A1	04-2002	Morris et al.	714	752	
	2002/0001294 A1	05-2001	Amouris	370	337	
	6,442,157	08-2002	Carter et al.	370	347	
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	6,088,659	07-2000	Kelley et al.	702	62	
	6,556,899	04-2003	Harvey et al.	701	29	
	6,256,477	07-2001	Eidson et al.	455	63.3	
	6,414,955	07-2002	Clare et al.	370	390	
	6,389,273	05-2002	Brandenburg	455	296	
	6,466,793	10-2002	Wallstedt et al.	455	450	
	6,256,304	07-2001	Vayrynen	370	350	
	6,553,424	04-2003	Kranz et al.	709	234	
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Other Documents

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